

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A dose indicator (A) for a fluid dispenser device (B), said indicator being characterized in that it comprises a rotary counting wheel (10) that is displaceable in rotation, and a slide member (20) that is displaceable in translation, said counting wheel including indicator means (15), indicating the number of doses dispensed or the number of doses still to be dispensed, and cooperating with a display opening (25) provided in said slide member (20), said rotary counting wheel (10) including a hollow profile (18) co-operating with a projection (28) of said slide member (20), the shape of said hollow profile (18) being such that at least some rotations of said rotary counting wheel (10) cause said slide member (20) to be displaced in translation, thereby modifying the position of said slide member (20) relative to said counting wheel (10), and in that the indicator further comprises actuator means comprising two flexible elements (32, 33) of different flexibilities, the more flexible element (32) enabling said rotary counting wheel (10) to be rotated at the start of the actuation stroke of the dispenser device (B), and the less flexible element (33) enabling said actuation stroke to be continued after said counting wheel (10) has been rotated.

2. (original): An indicator according to claim 1, in which said indicator means (15) follow said hollow profile (18) at least in part.

3. (previously presented): An indicator according to claim 1, in which the shape of said hollow profile (18) is irregular so that dose indication is progressive.

4. (previously presented): An indicator according to claim 1, in which said hollow profile (18) is spiral-shaped at least in part.

5. (previously presented): An indicator according to claim 1, in which said rotary counting wheel (10) and said slide member (20) are disposed in a cover (40) including a display window (45) co-operating with the display opening (25) of the slide member (20).

6. (previously presented): An indicator according to claim 1, in which said rotary counting wheel (10) is a thin disk including a set of teeth (19), said set of teeth (19) cooperating with actuator means which are designed to cause said rotary disk (10) to turn.

7. (original): An indicator according to claim 6, in which said actuator means include a drive element (31) secured to a ring (30) surrounding said set of teeth (19), said drive element (31) coming to co-operate with said set of teeth (19) each time a dose is dispensed.

8. (original): An indicator according to claim 7, in which said ring (30) includes anti-return means (36, 37) preventing said rotary disk (10) from turning in the direction opposite to the direction in which it is turned by said drive element (31).

9. (previously presented): An indicator according to claim 7, in which said actuator means include at least one flexible tab (31).

10. (previously presented): An indicator according to claim 7, in which said actuator means include a transmission element (34) which is designed to co-operate with said fluid dispenser device (B) each time said device is actuated, said transmission element (34) also co-operating with said drive element (31) so as to cause said rotary disk (10) to turn.

11. (original): An indicator according to claim 10, in which said transmission element (34) is a shoulder secured to said drive element (31), and co-operating with a portion (54) of the fluid dispenser device (B) which moves during actuation.

12. (previously presented): An indicator according to claim 5, in which the rotary counting wheel (10), the slide member (20), the actuator means (31, 34, 35), and the cover (40) form a unit which can be assembled in a fluid dispenser device (B).

13. (previously presented): An indicator according to claim 1, in which the actuator means include a flexible tab (31) comprising a first flexible-tab portion (32) and a second flexible-tab portion (33) that is more rigid than the first tab portion (32), the first tab portion (32) supporting an actuator pin (35) which is designed to cooperate with the set of teeth (19) of said rotary counting wheel (10) each time the device is actuated.

14. (original): An indicator according to claim 13, in which said ring (30) includes an abutment (39) which is designed to co-operate with a blocking element (38) secured to said flexible tab (31) so as to limit the rotation of said rotary counting wheel (10).

15. (original): An indicator according to claim 14, in which the more rigid, second tab portion (33) is designed to flex as soon as the blocking element (38) is blocked by the abutment means (39) of the ring (30).

16. (previously presented): An indicator according to claim 13, in which the rotary counting wheel (10) is rotated by the first part of the actuation stroke of the fluid dispenser device (B), the flexion of the more rigid, second tab portion enabling said actuation stroke of the fluid dispenser device (B) to be continued, despite the blocking element (38) being blocked by the abutment means (39).

17. (previously presented): An indicator according to claim 1, in which said indicator means (15) are numbers and/or symbols and/or colors.

18. (previously presented): A fluid dispenser device (B), comprising a fluid reservoir (51) and a dispenser member (52), such as a pump or a valve, mounted on said reservoir (51), said device being characterized in that it further comprises a dose indicator (A) according to claim 1.

19. (original): A device according to claim 18, in which the dose indicator (A) is actuated by a portion (54) of the reservoir (51) which is displaced while the device (B) is being actuated, and which co-operates with a transmission element (34) of said indicator (A).

20. (new): A dose indicator for a fluid dispenser device, wherein said indicator comprises a rotary wheel that is displaceable in rotation, the indicator further comprising actuator means comprising two flexible elements of different flexibilities, the more flexible element enabling said rotary wheel to be rotated at the start of the actuation stroke of the dispenser device, and the less flexible element enabling said actuation stroke to be continued after said rotary wheel has been rotated.

21. (new): An indicator according to claim 20, in which said rotary wheel is disposed in a cover comprising a display window.

22. (new): An indicator according to claim 20, in which said rotary wheel is a thin disk comprising a set of teeth, said set of teeth cooperating with the actuator means which are designed to cause said rotary wheel to turn.

23. (new): An indicator according to claim 22, in which said actuator means comprises a drive element secured to a ring surrounding said set of teeth, said drive element co-operating with said set of teeth each time a dose is dispensed.

24. (new): An indicator according to claim 23, in which said ring comprises anti-return means preventing said rotary wheel from turning in a direction opposite to the direction in which said rotary wheel is turned by said drive element.

25. (new): An indicator according to claim 23, in which said actuator means comprises at least one flexible tab.

26. (new): An indicator according to claim 23, in which said actuator means comprises a transmission element that cooperates with said fluid dispenser device each time said device is actuated, said transmission element also cooperating with said drive element so as to cause said rotary wheel to turn.

27. (new): An indicator according to claim 26, in which said transmission element is a shoulder secured to said drive element and cooperating with a portion of the fluid dispenser device which moves during actuation.

28. (new): An indicator according to claim 21, in which the rotary wheel, the actuator means, and the cover form a unit configured to be assembled in a fluid dispenser device.

29. (new): An indicator according to claim 20, in which the actuator means comprises a flexible tab comprising a first flexible-tab portion and a second flexible-tab portion that is more rigid than the first tab portion, the first tab portion supporting an actuator pin that cooperates with a set of teeth of said rotary wheel each time the device is actuated.

30. (new): An indicator according to claim 29, in which said ring comprises an abutment that cooperates with a blocking element secured to said flexible tab so as to limit the rotation of said rotary wheel.

31. (new): An indicator according to claim 30, in which the more rigid, second tab portion is designed to flex as soon as the blocking element is blocked by the abutment of the ring.

32. (new): An indicator according to claim 29, in which the rotary wheel is rotated by a first part of the actuation stroke of the fluid dispenser device, the flexion of the more rigid,

second tab portion enabling said actuation stroke of the fluid dispenser device to be continued, despite the blocking element being blocked by the abutment.

33. (new): A fluid dispenser device, comprising a fluid reservoir and a dispenser member mounted on said reservoir, said device further comprising a dose indicator according to claim 20.

34. (new): A device according to claim 33, in which the dose indicator is actuated by a portion of the reservoir which is displaced while the device is being actuated and which co-operates with a transmission element of said indicator.

35. (new): A dose indicator for a fluid dispenser device, wherein the dose indicator comprises:

 a rotary wheel that is displaceable in rotation;
 an actuator comprising a first flexible element and a second flexible element, wherein the first flexible element is more flexible than the second flexible element, the actuator further comprising a movable transmission element configured to engage the dispenser device; and
 wherein initial movement of the transmission element causes the first flexible element to flex and rotate the rotary wheel by a predetermined amount before the first flexible element is stopped and thereafter the second flexible element to flex so as to allow continued movement of the transmission element.

36. (new): The dose indicator according to claim 35, wherein the rotary wheel comprises teeth and the first flexible element is attached to an engagement pin that engages the teeth to rotate the rotary wheel in one direction when the first flexible element is flexed.